ABSTRACT OF THE DISCLOSURE

An addition image generation module 10 sequentially
timewise adds images (input images) of still pictures at
5   individual discrete time points included in a motion
picture to be analyzed, thereby generating two kinds of
addition images (image A and image B), respectively
including images of still pictures at different discrete
time points with the images being added at different
10   ratios. Matrix development modules respectively take out
pixel groups (first pixel group $a(i, j)$ and second pixel
group $b(i, j)$) located in a predetermined area (for
example, in an area having a size of 3×3), from the
generated image A and image B. A motion detection module
15   compares the taken out first pixel group $a(i, j)$ and
second pixel group $b(i, j)$, to detect a motion component
in the motion picture to be analyzed. A movement
direction detection module compares the taken out first
pixel group $a(i, j)$ and second pixel group $b(i, j)$,
20   while spatially shifting these groups, to detect the
movement direction in the motion picture to be analyzed.